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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/635,797	08/05/2003	Jean Rapin	10945.105002 (Neuro 101US	2719
20786	7590 05/09/2005		EXAMINER	
KING & SPALDING LLP 191 PEACHTREE STREET, N.E.			CORDERO GARCIA, MARCELA M	
45TH FLOO	•		ART UNIT	PAPER NUMBER
ATLANTA, GA 30303-1763			1654	

DATE MAILED: 05/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
3.	10/635,797	RAPIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Marcela M Cordero Garcia	1654				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on April 15, 2005.						
2a)⊠ This action is FINAL . 2b)□ This	· · · · · · · · · · · · · · · · · · ·					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-14, 16 and 17 is/are pending in the application. 4a) Of the above claim(s) 3 and 4 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1,2,5-14,16 and 17 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

This Office Action is in response to the reply received on April 15, 2005.

Claims 1-14, 16 and 17 are pending in the application. Claims 3, 4 are canceled by Applicant. Claim 15 had been previously canceled. Claims 1, 2, 7, 8, 9, 11, 12, 16 and 17 are amended.

Any rejection from the previous office action, which is not restated here, is withdrawn.

Claims 1, 2, 5-14, 16 and 17 are presented for examination on the merits.

With respect to the art rejections below, please note the following:

Alzheimer's disease, as referenced by Kan (Eur J Med Chem, 1992) is known in the art to be associated to brain lesions (amyloid β-protein plaques) whose composition is toxic (see, e.g., page 565, column 2 and page 566, column 1). Therefore, based upon the reference teachings, Alzheimer's disease can be classified as a postlesional disease of toxic origin.

In addition, please note that amnesia, as referenced by http://www.smithsrisca.demon.co.uk/neuro-glossary.html (accessed online, October 4, 2004), is known in the art to be associated, i.a., with bilateral lesions of either the hippocampal regions or the mammillary bodies, that may have originated by a mechanical or physical agent (trauma) (http://accessscience.com/, search term 'trauma', accessed online, October 4, 2004), and therefore can be classified as a postlesional disease of traumatic origin.

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Alzheimer's disease and amnesia are known in the art to be neurodegenerative disorders, as referenced by Henrichwark et al. (US 6080848). Ischemic heart disease may be caused, as is known in the art and referenced by Tedeshi et al. (US 6645518), by atherosclerotic lesions. Therefore ischemic heart disease can be classified as a postlesional disease of ischemic origin.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-2, 5-14 and 16-17 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Hathaway et al. (WO 92/13549)

Hathaway et al. teach administration to rabbits of pharmaceutical compositions of peptides encompassed by formula (I) for (see e.g. abstract, pages 9-11 and 36-37).

Applicant's arguments regarding the fact that Hathaway's disclosure teaches a genus of peptides and not only the specific peptides instantly claimed, have been considered by

the Examiner, but not deemed persuasive because overlapping species to those claimed by Hathaway et al. are encompassed by the instant invention (e.g., Ile-Ile-Pro). In addition, the intended use of the claimed composition does not patentably distinguish the compositions, per se, since such undisclosed use is intrinsic in the reference composition. In order to be limiting, the intended use must create a structural difference, thus the intended use is not limiting (see, e.g., MPEP 2112).

Moreover, applicant argues that the methods of use taught by Hathaway et al. (arteriosclerosis, cancer, etc) teach away from the use of any of these peptides for the treatment of neurodegenerative disease. Applicant's arguments have been considered but not deemed persuasive because as evidenced by BBC News Online (http://news.bbc.co.uk/1/hi/health/803297.stm, accessed online 5/3/05) and by Hofman et al (Lancet, 1997), Alzheimer's disease and arteriosclerosis indicators are highly correlated and therefore treating arteriosclerosis would have an intrinsic effect upon Alzheimer's disease.

Please also note that applicant has amended the claims to read only on the NH₂, NH-C₁₋₃-alkyl or N(C₁₋₃alkyl)₂ or the carboxy terminus of the instantly claimed peptides. Based upon the overall beneficial teachings provided by Hathaway et al., it would have been obvious at the time of the invention to adjust particular conventional working conditions therein (e.g., amidating the carboxy-terminus, alkylating residues, administrating specifically to humans in need thereof). This type of adjustment is therefore deemed merely a matter of judicious selection and routine optimization that is well within the purview of the skilled artisan.

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Thus, the invention as a whole is prima facie obvious over the reference, especially in the absence of evidence to the contrary.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-2, 5-10 and 16 stand provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-2 and 5-8 of copending Application No. 10/635,805.

The instantly claimed invention and the invention claimed in Application '805 are both drawn to a method of treating or preventing neurodegenerative diseases and/or postlesional diseases (such as Alzheimer's disease, in both cases) comprising administering an effective amount of a proline derivative of formula (I). Further, the instantly claimed method encompasses and/or is encompassed by the claimed method of Application '805.

Applicant indicates that a postlesional disease of toxic origin is not the same as a neurodegenerative disease and does not encompass Alzheimer's disease or amnesia and provides as evidence the WHO classification, which separates out Alzheimer's disease from postlesional diseases of toxic origin. The Examiner has carefully considered Applicant's arguments, but they are not deemed persuasive because --as stated above and cited in the previous Office Action-- Alzheimer's disease, as referenced by Kan (Eur J Med Chem, 1992) is known in the art to be associated to brain lesions (amyloid β-protein plaques) whose composition is toxic (see, e.g., page 565, column 2 and page 566, column 1). Therefore, based upon the reference teachings, Alzheimer's disease can be classified as a postlesional disease of toxic origin.

This is a <u>provisional</u> obviousness-type double patenting rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Conclusion

No claim is allowed.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcela M Cordero Garcia whose telephone number is (571) 272-2939. The examiner can normally be reached on M-Th 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on (571) 272-0974. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Marcela M Cordero Garcia Patent Examiner

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MMCG 05/05

CHRISTOPHER R. TATE PRIMARY EXAMINER